

# DELPHI SERIES



## FEATURES

- High efficiency: 91% @ 28V/12.5A
- Standard footprint:  
61.0x57.9x12.7mm (2.40"x2.28"x0.5")
- Industry standard pin out
- Fixed frequency operation
- Metal baseplate
- Fully protected: OTP, OCP, OVP, UVLO
- 2:1 input voltage range
- Basic insulation
- 2250V isolation
- ISO 9001, TL 9000, ISO 14001, QS 9000, OHSAS 18001 certified manufacturing facility
- UL/cUL 60950-1 (US & Canada) recognized, and TUV (EN60950-1) certified
- CE mark meets 73/23/EEC and 93/68/EEC directive

## Delphi Series H48SN, 350W Half Brick Family DC/DC Power Modules: 48V in, 28V/12.5A out

The Delphi Series H48SN Half Brick, 48V input, single output, isolated DC/DC converters are the latest offering from a world leader in power systems technology and manufacturing -- Delta Electronics, Inc. This product family provides up to 350 watts of power in an industry standard footprint. It provides 91% efficiency for 28V at full load. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions. All models are fully protected from abnormal input/output voltage, current, and temperature conditions. The Delphi Series converters meet all safety requirements with basic insulation. A variety of optional heatsinks are available for extended thermal operation, as well as for use in higher air flow applications: 200 to 400 LFM.

## OPTIONS

- Positive on/off logic
- Short pin length

## APPLICATIONS

- Telecom / DataCom
- Wireless Networks
- Optical Network Equipment
- Server and Data Storage
- Industrial / Test Equipment

## SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input voltage		36~75V	Voltage accuracy	Typical	±1.0%
Frequency	Typical	350KHz	Line regulation	Typical	±0.01%
Isolation Capacitance	In/Out	2250V	Load regulation	Typical	±0.05%
MTBF	Bellcore	TBD	Ripple & noise	Typical	150 mV
OTP	Typical	115°C	Current limits	Typical	130%
Size	(2.40"x2.28"x0.50")	61.0 x 57.9 x 12.7mm	Voltage Trim	Typical	+10%, -40%

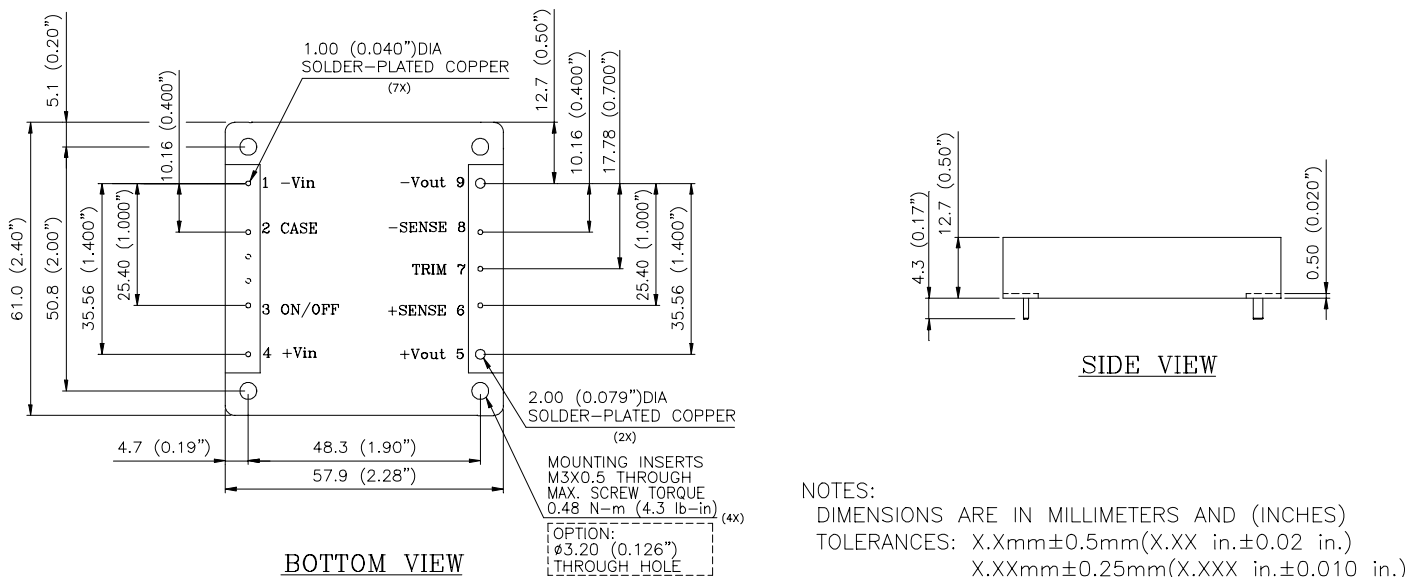
## PART NUMBERING SYSTEM

H	48	S	N	280	12	N	R	F	A
Form Factor	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length		Option Code
H- Half Brick	48V	S- Single	N- 350W series	280- 28V	12- 12.5A	N- Negative P- Positive	R- 0.170" N- 0.145" K- 0.110"	F- RoHS 6/6 (Lead Free) Space - RoHS 5/6	A - Standard Functions B= no thread heatsink mounting hole

## MODEL LIST

MODEL NAME	INPUT		OUTPUT		EFF @ 100% LOAD
H48SN28012NRFA	36V~75V	12.5A	28V	12.5A	91%

## MECHANICAL DRAWING



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## WARRANTY

Delta offers a two (2) year limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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